DVR

DVR SDI Series

The new video recorders series **DVR SDI** improves the quality level of Fracarro solution for CCTV.
These DVRs expand the functionalities and userfriendliness of the analogue Fracarro DVR to the latest technology applied to CCTV.
By **DVR SDI 16 and DVR SDI 4** Fracarro offers a highly professional solution able to record Megapixel cameras Full-HD (1920x1080) in real time for both 4 and 16 channels on internal drives (5 SATA hard disks for unlimited capacity).
The DVR-SDI-2-8 Hybrid solution is able to manage 8 analogue cameras and 2 SDI Full-HD cameras assuring real time recording at maximum resolution for both analogue (Full-D1) and SDI (Full-HD).
These DVR-SDI are fully compatible with all the Fracarro software for an easy and reliable remote management by PC and mobile phone.
DVR SDI series supports a powerful central monitoring software (CMS) that allows to remotely manage unlimited DVR through the interactive graphical maps (HEM).
The DVRs are supplied with remote control and USB mouse while control keyboard and internal DVD burner are available as option.

Main specs

- H264 compression
- Real time Recording, Playback and Live @ FullHD
- HDMI, VGA, BNC video outputs
- Fully PTZ control for all the Fracarro speed dome
- Full-HD (1920x1080) resolution
- FTP recording and e-mail event notification
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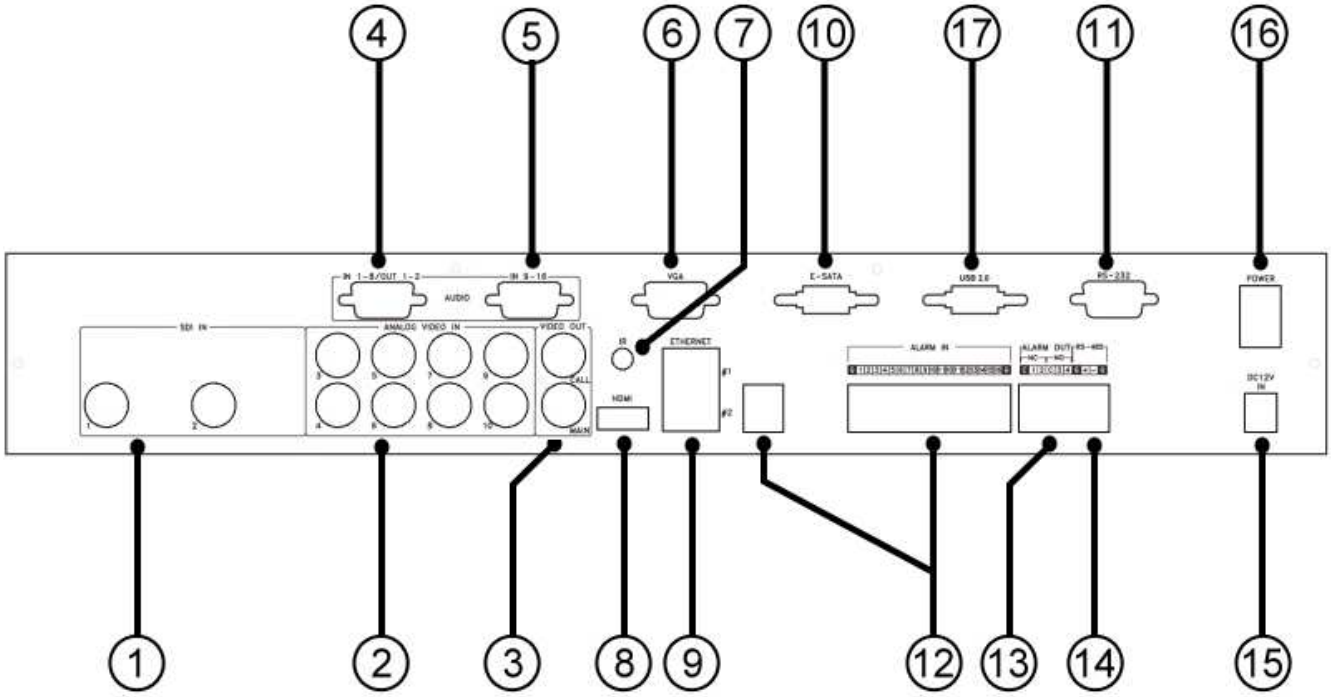
- Smart Search facility
- Pre/post alarms recording
- CMS software with interactive graphic maps
- Optional control keyboard (max 256 PTZ and/or DVR)
- Privacy requirement ready with watermarking and selectable recording time (adjustable per hours)
- AVI exportation files (USB, network)
- Advanced motion detection: multi-area and –sensibility
- Clear and easy graphic OSD Multilanguage menu
- Windows Vista and Window 7 ready
- Comply with POS and ATM for system integration
- Complete network support (TCP/IP, PPPoE, DHCP, DDNS, SMTP, FTP)
- Remote control and mouse included
- 18 different accounts with 4 level password protection
- DVD burner and control keyboard available as option

		DVR SDI 2-8	DVR SDI 4	DVR SDI 16
Technical Specification				
Video inputs	Analogue	8 PAL/NTSC (BNC - 75 Ω unbalanced)	N. A.	N. A.
	Digital	2 SDI (BNC - 75 Ω unbalanced)	4 SDI (BNC - 75 Ω unbalanced)	16 SDI (BNC - 75 Ω unbalanced)
Audio inputs	Analogue	10 RCA (line-in level 100mV - 2Vrms)	4 RCA (line-in level 100mV - 2Vrms)	16 RCA (line-in level 100mV - 2Vrms)
	Digital	2 SDI (same as video inputs)	4 SDI (same as video inputs)	4 SDI (same as video inputs)
Outputs	Video	HDMI and VGA with resolution up to Full HD, 2 BNC (monitor e spot) PAL/NTSC		
	Audio	2 RCA-jack connectors, line-out level (up to 2Vrms)		
Functions		Recording, Live, Playback, Control, Backup and Network		
Recording				
Frame rate (adjustable for each camera)	Digital	**Full Real Time** 50 fps @ Full-HD (1920×1080)	**Full Real Time** 100 fps @ Full-HD (1920×1080)	**Full Real Time** 400 fps @ Full-HD (1920×1080)
	Analogue	**Full Real Time** PAL: 200 fps @ Full D1 (720×576) or Half D1 (720×288) or CIF (360×288) NTSC: 200 fps @ Full D1 (720×480) or Half D1 (720×240) or CIF (360×240)	N. A.	N. A.
Quality		Adjustable for each camera with 9 levels		
Modality		Manual / Scheduling / Motion Alarm / Pre alarm (0-60 sec) / Post alarm (0-60 min)		
Scheduling		Time and frame rate adjustable for each camera		
Compression	video	H264		
	audio	ADPCM		
Search		Date / time / motion / video loss / Camera / Smart Search		
Hard disk	Internal	SATA		
	Capacity max	5 disks unlimited capacity		
	Overwrite	Full disk stop / Full disk overwrite / Time adjustable overwrite (Privacy)		
	Partition	Double partition size adjustable for alarm and normal recording		
	Security	Failure event detection		
Display				
Resolution	VGA, HDMI	Full-HD (1920×1080)		
	BNC	PAL: 720×576 pixels, NTSC: 720×480 pixels		
Speed		Full Real time		
Mode		Full screen / Quad / 5 / 10 / Sequential	Full screen / Quad / Sequential	Full screen / Quad / 5 / 10 / 16/ Sequential
Zoom		X2 and x4 on live		
Motion detection		Detection areas and sensitivity adjustable for each camera		
Network				
Connection		RJ45, Ethernet 10/100 base T Mbit		
Communications	Protocols	TCP/IP, HTTP, PPPoE, DHCP, DDNS, FTP, TSP		
	Ports	Independent configuration for data and Control		
Functionalities		Remote control, Live view with PTZ facility, Backup, fw upgrade		
Event management		Mail notification and ftp recording		

Users		Max 8 users simultaneously
Local user interface		
Protection		Multilevel Password (4) and multi-user (18)
Locally		Frontal keyboard, USB mouse, remote control (up to 4 DVR), optional control keyboard with 3-axis joystick (up to 256 DVR)
Remote user interface		
Browser (Windows & MAC)		Full management (up to 10 DVR) by ActiveX control
CMS (Windows & MAC)		Full management (unlimited DVR) with interactive graphic maps
Mobile user interface		
Smartphone and Tablet	Android / OS (Apple)	Live, Playback, Alarm In/Out, PTZ, 2 Way audio, Search by Time/Events, Snapshot, Log file. Easy management for unlimited DVR with free app "***Fracarro iDVR***" available on "Apple Store" and "Play Store"
Event management		
Detected events	Type	Motion detection, video loss, input alarms, full disk, hard disk faulty
Alarms	Input	16, (TTL/CMOS selectable polarity) with Panic feature and alarm Set/Unset
	Output	4, 2 Normally Opened, 2 Normally Closed
Buzzer		Programmable for each event
Log file		Last 3.000 events
Connections		
Serial communication		RS485 (D+, D-), RS-232
PTZ control		Pelco D, Pelco P, Samsung SCC-641P, Kalatel Cyber Dome, Bosch AutoDome and other protocols…
Backup		USB 2.0 (Pendrive, external hard disk self-powered, External DVD burner self-powered, SD-MMC Card) / Internet Explorer / CMS / Internal DVD burner (optional)
Generals		
Power supply ~		100–240 V 50/60 Hz with On/Off switch (12Vdc/8A external adapter included)
Power		100 W max with 5 hard disks
Operating Temperature		0 – 45 ℃
Operating Humidity		<80 Ur %
Dimensions		430(W) x 350(D) x 66(H) mm
Weight		About 4 Kg without hard disk

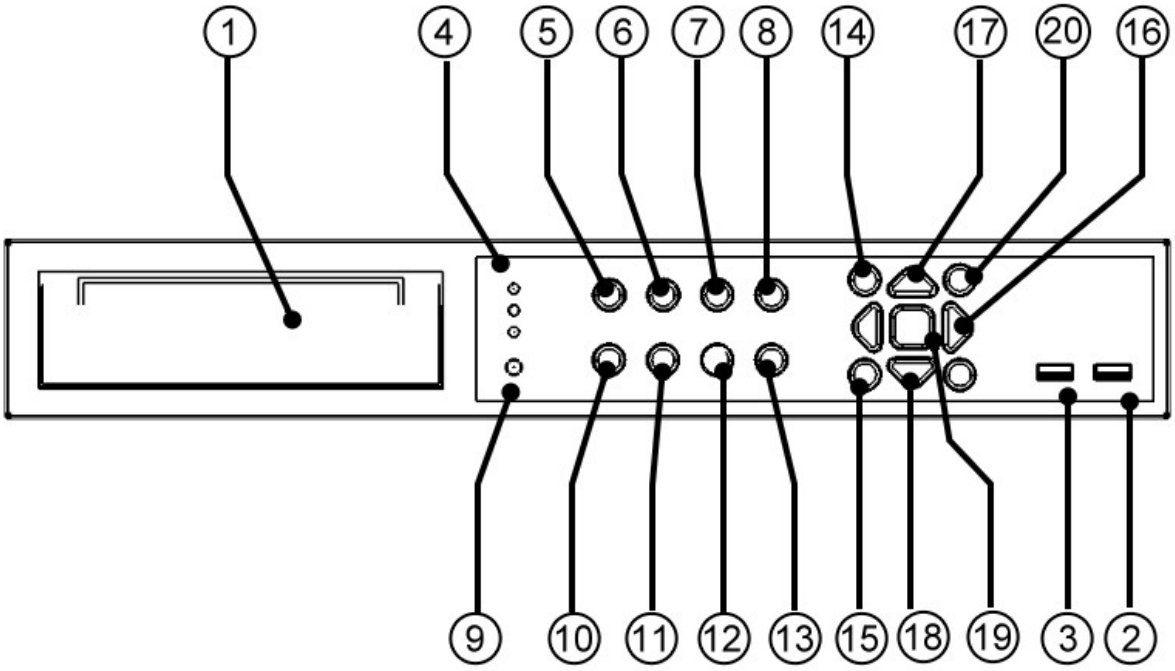
Accessories	Code	Description
HDD-500S	918222	Hard disk 3,5" 500 GB 7200 rpm SATA
HDD-1000S	918223	Hard disk 3,5" 1000 GB 7200 rpm SATA
HDD-2000S	918233	Hard disk 3,5" 2000 GB 7200 rpm SATA
DVD-SATA	918126	Internal SATA DVD burner for backup and playback on DVD+RW, DVD+R, DVD-R disks
DVR-SPEED-KB	918125	Control keyboard (RS485) to manage up to 256 DVR and/or speed dome
DVR-EXT-REMOTE	918136	Adjunctive remote control with external IR sensor (with cable 3m)

Rear Panel



Camera inputs and video outputs					
1	SDI camera inputs (1-2 or 1-4 or 1-16)	**2**	PAL/NTSC camera inputs	**3**	MAIN and CALL video output on BNC
6	VGA Video output	**8**	HDMI Video output		
Alarm management					
12	Alarm inputs (1-16) with Panic feature and alarm Set/Unset			**13**	4 Alarm outputs (1-2 NA, 3-4 NC)
Communication interfaces					
7	External IR sensor	**9**	Ethernet RJ45 connector	**10**	e-Sata connector
11	RS-232 Connector (PTZ)	**14**	RS-485 connectors for PTZ and control keyboard	**17**	USB 2.0
Audio					
4	Audio input (1-8) and Output (1-2)	**5**	Audio input (9-16)		
General					
15	Power supply 12Vdc input	**16**	Power switch on/off		

Frontal panel



Rec / Playback / Backup					
5	MODE Toggle between live and playback mode. At playing, this button is used as “slow backward”.	**13**	COPY - Start o stop backup	**8**	SEARCH – Display the search menu
12	STOP – Stop the playback	**11**	PLAY/PAUSE Play the recorded images or pause the playback	**10**	REC – Manual recording
Alarm interfaces					
6	SEQ - Switch to or return from SEQ display mode. At playing, this button is used as “slow forward”.	**7**	CALL – Switch to or return from full screen display	**20**	Split window Next or previous split window
PTZ cameras control					
15	PAGE Button page down in multi-split-window displays	**17**	UP / BS Move the cursor or Tilt up the camera or Backspace	**18**	DOWN / DEL Move the cursor or Tilt down the camera or Delete
16	LEFT / RIGHT Move the cursor or Pan the camera				
Communication interfaces					
4	Led indicators for Power, HDD and network access	**9**	Remote IR control receiver	**1**	DVD Burner (optional)
2	USB Mouse Conector	**3**	USB Connector		
General					
14	MENU / ESC Display or ESC the menu	**19**	ENTER Enter Key		

Package content:

USB optical Mouse

Remote control with batteries

Power adapter 12V / 8A

Power cord with Shuko plug

Screws for hard disk mounting

Audio cable with multi RCS inputs connector

Multilanguage quick installation guide

Software user manual (English)

CD-ROM with user manuals

Software with interactive graphic maps (e-maps) with built-in free licence for 10 dvr.